



Chuck Le Beau's System Traders Club Crossbow Swiss Trading System

Chuck Le Beau's System Traders Club

Thank you for purchasing the " Crossbow Swiss Franc " Version 1.0 Trading System

Four "Crossbow" System files are included in this archive:

cross.doc	The file you are now reading
cross.txt	This file in .txt format
cross.el	The Tradestation System el file
sf.lng	23 years of continuous contract, back-adjusted, day session only, Ascii format Swiss Franc futures data.

(If you are not using Tradestation or SuperCharts, the system rules are very simple and should be easy to code into any software)

The System Documentation below contains the following information:

" Crossbow " Trading System (Report text format)
Introduction
Historical Results
System Concept
System Rules

Tradestation Easy Language code in text form

Instructions for "Transfer in" to TradeStation & SuperCharts & Import to TradeStation 2000i
Instructions for Inserting Analysis Techniques
Instructions for Cut and Paste to PowerEditor
Trade by Trade Report

"CROSSBOW" SWISS FRANC TRADING SYSTEM

Version 1.0

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Introduction

The Swiss Franc or "Suisse" remains one of the worlds most tradable currencies and one of the few remaining European currencies that has a large following of traders. In the past the Swiss Franc was often neglected by traders who preferred to trade the German Mark. The Swiss Franc was usually very highly correlated with the German Mark and was often more risky to trade than the Mark because of its higher volatility. Now that the Mark is no longer traded the interest in the Swiss should grow. The Swiss Franc has proven to be an excellent market for traders and particularly trend followers. There are many long lasting trends that have presented excellent trading opportunities throughout the historical data. We can think of no reason why there should not be many more of these trading opportunities in the future.

The Crossbow System was designed to be much quicker to exit than the Strategic System and should therefore be less dependent on the length of the trends. This highly accurate system should be able to trade the intermediate swings extremely well.

The Crossbow System has been carefully designed to allow it to quickly recognize the direction of the prevailing trend and then to search for an accurate and low-risk entry point. We have also designed a simple set of exits that are able to let profits run without giving back too much of the open profits.

Hypothetical Test Results

Before we discuss the specific rules of the system, we will present the hypothetical results. Table 1 shows the hypothetical performance of the system tested over about 11 years of data. For testing purposes, we used continuously back-adjusted daily data. We ignored all night sessions, and all calculations were based on day-session prices and ranges. \$100 was deducted from every trade to simulate the effects of commissions and slippage. The test period was our usual starting period of 10/17/88 to a very recent 9/30/99 with "MaxBarsBack" set to 50 on our TradeStation 4.0 testing platform. Maxbarsback refers to the number of bars of data necessary to calculate the rules in a system. System rules only begin after the MaxBarsBack period. The test period includes the MaxBarsBack period, so that no trades are taken for the first 50 trading days. By starting our data on the apparently odd starting date of October 17, 1988 this 50 day MaxBarsBack setting will give us our first trade in January of 1989.

This intermediate term system trades more frequently than the Strategic system, averaging about 6 new trades per year. Although the Crossbow system holds its trades only half as long as the Strategic system it still proved to be quite profitable during our testing. Trading one contract since 10/17/88 would have resulted in a hypothetical gain of \$101,300 with a maximum drawdown of \$5,500. The system is extremely accurate with 78 percent winning trades (52 winners out of 67 trades), and the winning trades were larger than losing trades by a factor of 1.3 to one. The average trade (win and loss) was \$1511 which is a very respectable number. There were 11 consecutive winners and the maximum consecutive losers in the test period was only 2. The largest winning trade was \$10,337 which accounts for about 10% of the net profit. The system has a solid profit factor (gross profit divided by gross loss) of 4.53.

Crossbow Swiss SF.LHG-Daily 10/17/88 - 09/30/99

Performance Summary: All Trades

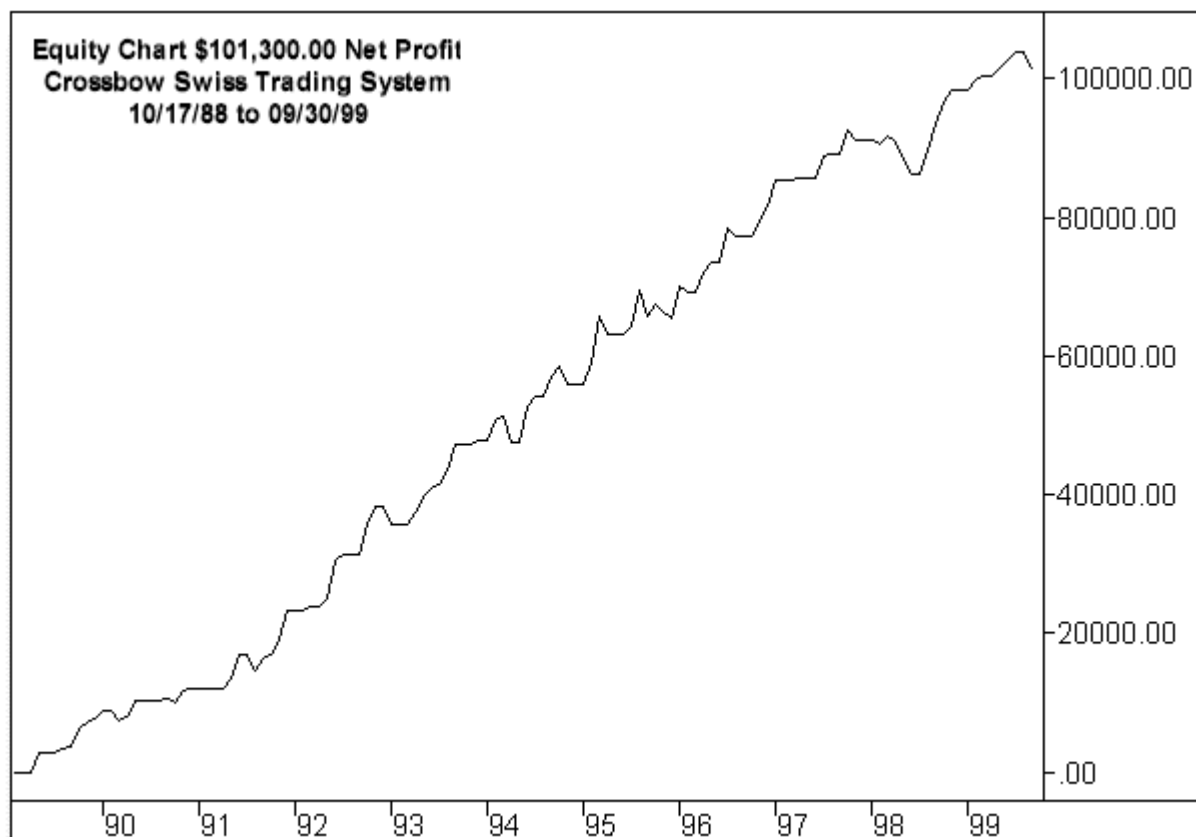
Total net profit	\$ 101300.00	Open position P/L	\$ 0.00
Gross profit	\$ 130000.00	Gross loss	\$ -28700.00
Total # of trades	67	Percent profitable	78%
Number winning trades	52	Number losing trades	15
Largest winning trade	\$ 10337.50	Largest losing trade	\$ -2875.00
Average winning trade	\$ 2500.00	Average losing trade	\$ -1913.33
Ratio avg win/avg loss	1.31	Avg trade(win & loss)	\$ 1511.94
Max consec. winners	11	Max consec. losers	2
Avg # bars in winners	16	Avg # bars in losers	12
Max intraday drawdown	\$ -5500.00		
Profit factor	4.53	Max # contracts held	1
Account size required	\$ 5500.00	Return on account	1842%

Performance Summary: Long Trades

Total net profit	\$ 63712.50	Open position P/L	\$ 0.00
Gross profit	\$ 77200.00	Gross loss	\$ -13487.50
Total # of trades	38	Percent profitable	79%
Number winning trades	30	Number losing trades	8
Largest winning trade	\$ 10337.50	Largest losing trade	\$ -2875.00
Average winning trade	\$ 2573.33	Average losing trade	\$ -1685.94
Ratio avg win/avg loss	1.53	Avg trade(win & loss)	\$ 1676.64
Max consec. winners	11	Max consec. losers	2
Avg # bars in winners	16	Avg # bars in losers	12
Max intraday drawdown	\$ -4400.00		
Profit factor	5.72	Max # contracts held	1
Account size required	\$ 4400.00	Return on account	1448%

Performance Summary: Short Trades

Total net profit	\$ 37587.50	Open position P/L	\$ 0.00
Gross profit	\$ 52800.00	Gross loss	\$ -15212.50
Total # of trades	29	Percent profitable	76%
Number winning trades	22	Number losing trades	7
Largest winning trade	\$ 6900.00	Largest losing trade	\$ -2600.00
Average winning trade	\$ 2400.00	Average losing trade	\$ -2173.21
Ratio avg win/avg loss	1.10	Avg trade(win & loss)	\$ 1296.12
Max consec. winners	8	Max consec. losers	1
Avg # bars in winners	15	Avg # bars in losers	11
Max intraday drawdown	\$ -4875.00		
Profit factor	3.47	Max # contracts held	1
Account size required	\$ 4875.00	Return on account	771%



HYPOTHETICAL OR SIMULATED PERFORMANCE RESULTS HAVE CERTAIN INHERENT LIMITATIONS. UNLIKE AN ACTUAL PERFORMANCE RECORD, SIMULATED RESULTS DO NOT REPRESENT ACTUAL TRADING. ALSO, SINCE THE TRADES HAVE NOT ACTUALLY BEEN EXECUTED, THE RESULTS MAY HAVE UNDER-OR-OVER COMPENSATED FOR THE IMPACT, IF ANY, OF CERTAIN MARKET FACTORS SUCH AS LACK OF LIQUIDITY. SIMULATED TRADING PROGRAMS IN GENERAL ARE ALSO SUBJECT TO THE FACT THAT THEY ARE DESIGNED WITH THE BENEFIT OF HINDSIGHT. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFITS OR LOSSES SIMILAR TO THOSE SHOWN.

System Concept

The entry for the Crossbow Swiss System is based on simple indications of trend direction and a clever but simple definition of a dip or rally. The exits are simple trailing stops designed to lock in most of the open profits while still allowing the trades room to grow.

Trading Rules

Here are our rules for the long side entry:

1. The 20 day moving average must be above the 40 day moving average.
2. The close must be within 4 Average True Ranges of the highest high in the last 15 days.
3. The close must be at least 1.5 Average True Ranges below the highest high of the last five days.
- 4.

The 14 day ADX must be less than 30. 5. If these four conditions are met we will buy tomorrow on a stop at the highest high of the last two days.

Here are the rules for long exits. (Note: the length of the Average True Range used in all of the calculations is 15 bars.)

1. If the highest close since entry is greater than the entry price plus 1.5 Average True Ranges then we will exit on a stop at the highest close minus 1.5 ATRs.

Here are the rules for the short side entry:

1. The 20 day moving average must be below the 40 day moving average. 2. The close must be within 2 Average True Ranges of the lowest low in the last 15 days. 3. The close must be at least 1 Average True Ranges above the lowest low of the last three days. 4. The 14 day ADX must be less than 30. 5. If these four conditions are met we will sell tomorrow on a stop at today's low.

Here are the rules for short exits.

1. If the lowest close since entry is less than the entry price minus 2 Average True Ranges then we will exit on a stop at 1 ATR above the lowest close.

Use a \$2,500 money management stop for both long and short trades.

In addition to the exits listed, the system will also exit if there is a trade signaled in the opposite direction.

Entry Logic

The entry logic is composed of two parts. The first part of the entry is to carefully define the direction of the trend. We use a combination of moving averages to help us with this task. If the 20 day moving average is above the 40 day moving average we will assume that the trend is up. If the 20 day moving average is below the 40 we will assume that the trend is down. This definition isn't quite as accurate as we would like so we added a second definition of trend.

In an uptrend the close should be within 4 Average True Ranges of a recent high (15 days). In a downtrend the close should be within 2 Average True Ranges of a recent low. As you can see, these conditions are not symmetrical for up and down. We have found that in almost all markets the downtrends are generally steeper than the up trends.

Once the direction of the prevailing trend has been confirmed the next step is to look for a temporary trend correction so that we can go long on a dip or sell short on a rally. We have always had a preference for systems that buy on dips or sell on rallies. This entry strategy lowers the risk and maximizes the profits. From a very practical point of view we have found that it is a much easier strategy to implement than following breakouts.

Our procedure for defining a dip or a rally is simple and straightforward. A dip is detected whenever the close is 1.5 or more Average True Ranges below the highest high in the last five days. A rally is identified whenever the close is 1 Average True Range or more above the lowest low of the last three days. Again you will notice that these conditions are not the same for longs and shorts. As you recall, we have previously pointed out that the downtrends are steeper the rallies. This means that the rallies in a downtrend do not usually deviate as far from the trend as do the dips in an uptrend. If we waited for rallies of

the same proportions as the dips we would trade the short side very infrequently and make a great deal less money.

We also want to make sure that we are not entering our trades too late in the trend where a dip or rally may turn out to be the top or bottom of the market. We use the ADX to keep us out of trouble. If the ADX is above 30 we assume that the trend is an old one that may be near an end so we do not want to enter at levels above this important threshold.

Once a dip or a rally is detected we then need to trigger our entry. Because of our previously described differences in the trends the short entry trigger needs to be quicker than the long entry trigger. The short side entry trigger is a stop at yesterday's high while the long side entry trigger is a stop at the two day high. In both cases we want to wait for a high or low to confirm that the correction we have measured has finally run its course.

Exit Logic

The exits for this system are unusually simple and should be very robust. All we do is implement a trailing stop after a specified amount of profit. On the long side we wait for 1.5 ATRs of profit and then we trail a stop at 1.5 ATRs below the highest close. On the short side we wait for 2 ATRs of profit and then we trail a stop 1 ATR above the lowest close. For the losing trades we use a \$2500 money management stop on both sides.

Weaknesses

It is difficult to see much in the way of weaknesses in this system. The typical high volatility of the Swiss Franc makes it difficult to lock in open profits with the tight stops we usually prefer. As in any system it is always possible to be whipsawed when we enter a trade and there is no follow through. To avoid unnecessary whipsaws we have to give our open trades a bit more slack than we would like. Fortunately the high winning percentage and the positive test results which show a maximum of only two losses versus eleven winners in a row are very encouraging.

This system relies on finding correction within the framework of a trend. However, the risk of waiting for corrections to enter is that we might someday miss a rare trend that moves a great distance without a correction. In this system we need those corrections to provide our entry opportunities. To make sure we capture these rare but very profitable trends that have few corrections, we would recommend also trading a solid breakout system like our Strategic Swiss System. The entry techniques of the Crossbow and the Strategic systems were carefully designed to complement each other.

Conclusion

The Crossbow System is an excellent trend following system designed to enter long on dips and sell short on rallies. In our historical testing it has proven to be highly profitable and has many outstanding characteristics, especially in terms of the high percentage of winning trades and the large size of those winning trades. Most importantly we think the logic behind the simple entries and exits is very sound. The small number of parameters needed in the system appear to be robust and have a wide margin for error.

Code for TradeStation

```
{-----Crossbow Swiss -----  
Copyright 1999 Chuck Le Beau, David Elden  
Version 1.0
```

http://www.traderclub.com/systems_crossbow.htm
}

{----- SYSTEM COMMENTS -----
Money Management Stop is \$2,500.
Maxbarsback are 50
Costs are \$100.00
-----}

Condition1= C > Highest(H,15) - 4 * AvgTrueRange(15);
Condition2= C < Highest(H,5) - 1.5 * AvgTrueRange(15);
Condition3= Average(C,20) > Average(C,40);
Condition4= Adx(14) < 30;
Condition5= C < Lowest(L,15) + 2 * AvgTrueRange(15);
Condition6= C > Lowest(L,3) + 1 * AvgTrueRange(15);
Condition7= Average(C,20) < Average(C,40);

IF MarketPosition<>1 THEN BEGIN
 IF Condition1 and Condition2 and Condition3 and Condition4 THEN Buy("LHHTrig")
 Highest(H,2) Stop;
 END;

IF MarketPosition=1 THEN BEGIN
 IF MaxTradeClose > EntryPrice + 1.5 * AvgTrueRange(15) THEN
 ExitLong("L1.5Chan") MaxTradeClose - 1.5 * AvgTrueRange(15) Stop;
 END;

IF MarketPosition<>-1 THEN BEGIN
 IF Condition4 and Condition5 and Condition6 and Condition7 THEN Sell("SLLTrig")
 Lowest(L,1) Stop;
 END;

IF MarketPosition=-1 THEN BEGIN
 IF MinTradeClose < EntryPrice - 2 * AvgTrueRange(15) THEN ExitShort("S1Chan")
 MinTradeClose + 1 * AvgTrueRange(15) Stop;
 END;

-----Functions Used in the Code-----

{---Function MaxTradeClose---}

if MarketPosition <> 1 then MaxTradeClose=-999999;
if MarketPosition=1 and C>MaxTradeClose[1] then MaxTradeClose=C;

{---Function MinTradeClose---}

if MarketPosition <>-1 then MinTradeClose=999999;
if MarketPosition=-1 and C<MinTradeClose[1] then MinTradeClose=C;

INSTRUCTIONS FOR "TRANSFER IN" TO TRADESTATION (From TradeStation 4.0 Help File)

When you receive a disk or CD that contains an indicator, a ShowMe or PaintBar study, a trading system, or a function in ELA file format, do not use the Windows Explorer, the Windows File Manager, or the DOS COPY command to copy these analysis techniques into TradeStation. Instead, you must use TradeStation's transfer feature. To transfer an analysis technique into TradeStation from another directory, a disk, or a CD, when it is in the ELA file format, use the following steps:

1. Use the Tools - QuickEditor menu sequence to access the QuickEditor.
2. Click the Transfer button to produce the Transfer Analysis Techniques dialog.
3. Click the Transfer analysis techniques FROM Easy Language Archive file radio button to transfer in analysis techniques.
4. Click on OK to produce the Transfer from archive file dialog.
5. In the From edit box, enter the complete path name for and the name of the Easy Language Archive file (.ELA) from which you want to transfer the analysis techniques. Enter the path name and file name using one of the following methods:
 - a) If you have previously transferred files, TradeStation remembers where the ELA files were located and lists the ELA file names in the From drop-down list. Choose an ELA file from the drop-down list.
 - b) In the From edit box, type in the drive letter, the correct path name, and the ELA file name. For example, C:\TEMP\SYSTEMS, where C: is the drive letter, TEMP is the directory path name, and SYSTEMS is the ELA file name TradeStation is to create.
 - c) Click on the Browse button to access the standard Windows Open dialog, in which you can choose the directory and the ELA file that contains the analysis techniques you want to transfer in. Once you specify the file and click OK, the information is placed in the From edit box.
 - d) Click the Scan button to have TradeStation scan any drive you specify for existing ELA files. Any ELA files found are placed in the From drop-down list. You can then choose the ELA file that contains the analysis techniques you want to transfer in from the drop-down list.
6. Once you enter the information in the From edit box, click on OK to produce the Transfer dialog.
7. Click on the radio button for the type of analysis technique you want to transfer into TradeStation. You may transfer in only one type of analysis technique at a time, unless you select Transfer All and transfer in all the analysis techniques found in the ELA file. If the

radio button for a particular type of analysis technique is dimmed (grayed-out), it means TradeStation did not find that type of analysis technique in the ELA file you specified.

8. Once you select either the specific analysis technique type or Transfer All, click on OK. Unless you have a specific reason for doing otherwise we seriously recommend that you use the Transfer All option in order to be sure that all the included user functions are transferred with the system code.

a) If you selected Transfer All, TradeStation begins transferring in the analysis techniques contained in the ELA file you specified. If an analysis technique with the same name as one you are transferring in already exists in TradeStation, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

OR

b) If you selected a specific type of analysis technique, the Transfer analysis technique type dialog appears.

Click on as many analysis techniques as you want to transfer in; this highlights the technique. To deselect an analysis technique, click on it again.

Once you have highlighted the analysis techniques you want to transfer in, click on OK. TradeStation begins transferring the analysis techniques from the ELA file into TradeStation. If an analysis technique with the same name as one you are transferring in already exists in TradeStation, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

9. When TradeStation is finished transferring the analysis techniques in from the ELA file, you are returned to the QuickEditor. Click Close to return to TradeStation.

You can now insert the analysis technique into your TradeStation chart. For information on inserting the different analysis techniques into your chart window, refer to the sections that cover indicators, ShowMe and PaintBar studies, and trading systems. How to work with user functions is covered in the Easy Language User's Manual.

INSTRUCTIONS FOR LOADING SYSTEMS INTO SUPERCHARTS 4.0

(Older versions do not use the Ela format and cannot use this technique. See below for versions prior to 4.0)

(From SuperCharts 4.0 Help File)

When you receive a disk or CD that contains an indicator, a ShowMe or PaintBar study, a trading system, or a function in ELA file format, do not use the Windows Explorer, the Windows File Manager, or the DOS COPY command to copy these analysis techniques into SuperCharts. Instead you must use SuperCharts transfer feature.

To transfer an analysis technique into SuperCharts from another directory, a disk, or a CD, when it is in the ELA file format, use the following steps:

1. Use the Tools - QuickEditor menu sequence to access the QuickEditor.
2. Click the Transfer button to produce the Transfer Analysis Techniques dialog.
3. Click the Transfer analysis techniques FROM Easy Language Archive file radio button to transfer in analysis techniques.

4. Click on OK to produce the Transfer from archive file dialog.

5. In the From edit box, enter the complete path name for and the name of the Easy Language Archive file (.ELA) from which you want to transfer the analysis techniques. Enter the path name and file name using one of the following methods:

a) If you have previously transferred files, SuperCharts remembers where the ELA files were located and lists the ELA file names in the From drop-down list. Choose an ELA file from the drop-down list.

b) In the From edit box, type in the drive letter, the correct path name, and the ELA file name. For example, C:\TEMP\SYSTEMS, where C: is the drive letter, TEMP is the directory path name, and SYSTEMS is the ELA file name SuperCharts is to create.

c) Click on the Browse button to access the standard Windows Open dialog, in which you can choose the directory and the ELA file that contains the analysis techniques you want to transfer in. Once you specify the file and click OK, the information is placed in the From edit box.

d) Click the Scan button to have SuperCharts scan any drive you specify for existing ELA files. Any ELA files found are placed in the From drop-down list. You can then choose the ELA file that contains the analysis techniques you want to transfer in from the drop-down list.

6. Once you enter the information in the From edit box, click on OK to produce the Transfer dialog.

7. Click on the radio button for the type of analysis technique you want to transfer into SuperCharts. You may transfer in only one type of analysis technique at a time, unless you select Transfer All and transfer in all the analysis techniques found in the ELA file. If the radio button for a particular type of analysis technique is dimmed (grayed-out), it means SuperCharts did not find that type of analysis technique in the ELA file you specified.

8. Once you select either the specific analysis technique type or Transfer All, click on OK.

a) If you selected Transfer All, SuperCharts begins transferring in the analysis techniques contained in the ELA file you specified. If an analysis technique with the same name as one you are transferring in already exists in SuperCharts, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

OR

b) If you selected a specific type of analysis technique, the Transfer analysis technique type dialog appears.

Click on as many analysis techniques as you want to transfer in; this highlights the technique. To deselect an analysis technique, click on it again. Once you have highlighted the analysis techniques you want to transfer in, click on OK. SuperCharts begins transferring the analysis techniques from the ELA file into SuperCharts. If an analysis technique with the same name as one you are transferring in already exists in SuperCharts, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

9. When SuperCharts is finished transferring the analysis techniques in from the ELA file, you are returned to the QuickEditor. Click Close to return to SuperCharts.

You can now insert the analysis technique into your SuperCharts chart. For information on inserting the different analysis techniques into your chart window, refer to the sections that cover indicators, ShowMe and PaintBar studies, and trading systems. How to work with functions is covered in the Easy Language User's Manual.

INSTRUCTIONS FOR IMPORTING ANALYSIS TECHNIQUES IN TRADESTATION 2000I

We have supplied the code for the system in both ela, Tradestation 4.0 format and els TradeStation 200i format. Use the els file if you are importing into Tradestation 2000i, and be sure to select all, when prompted.

When importing analysis techniques, you can only import one ELA/ELS file at a time. Each ELA/ELS file may contain several analysis techniques. Once you specify the file to import, the wizard enables you to select individually each analysis technique you want import from the file. If the analysis technique already exists in your product, the analysis technique is not imported.

To import an EasyLanguage Archive/Storage file:

- 1 Use the File - Import and Export menu sequence to open the Import and Export Wizard.
- 2 Click Import EasyLanguage Archive File (ELA and ELS).
- 3 Click Next.
- 4 In the Select the location of your EasyLanguage Archive File box, enter the appropriate path and file name (e.g., C:\My Analysis Techniques\Indicators.els).

Note If you do not know the location and/or path of your EasyLanguage Archive file, you can scan or browse your hard drive. For more information, see Scanning Your Hard Drive for EasyLanguage Archive Files.

- 5 Click Next.
- 6 Select the categories of analysis techniques you want to import.

Note: Click Select All to select all analysis categories. Click Clear All to clear all categories so that you can reselect the appropriate categories.

- 7 Click Next.
- 8 Select the analysis technique(s) you want to import.

Note: Click Select All to select all analysis techniques. Click Clear All to clear all analysis techniques so that you can reselect the appropriate analysis techniques.

- 9 Click Finish.
- 10 When the importing process is complete, click OK.

INSTRUCTIONS FOR INSERTING ANALYSIS TECHNIQUES

Analysis techniques, which includes Indicators, ShowMe studies, PaintBar studies and trading systems, can be inserted only on an active chart window. To make a chart window active, simply click on it or use the Window menu.

Once your chart window is active, you can add an analysis technique to it in any of three ways: the Menu Sequence method, the Shortcut menu method, or the Indicator icon method. The following covers each of these three methods.

Using the Menu Sequence Method

Use the following directions to insert analysis techniques in your chart window using the menu sequence method:

1. Use the Insert - Analysis Techniques menu sequence to produce the Insert Analysis Techniques dialog, shown below. This dialog contains four tabs.

Insert Analysis Techniques dialog

2. Click on the appropriate tab to produce the corresponding dialog. For example, to insert an indicator, click the Indicator tab.
3. Select one analysis technique by clicking on it, or more than one analysis technique by holding down the CTRL key and clicking on the analysis techniques you wish to apply.

If you want to format the analysis technique (change inputs, color, style, scaling, and other properties) before it is plotted, click in the Format checkbox to place a check mark in the box. (To remove the check mark click again.)

4. Click the Plot button. You are returned to the chart window. The analysis has been applied to the chart.

If you chose to format your analysis technique before inserting it on the chart window, the Format analysis technique dialog is produced when you click the Plot button. After specifying the way you want the analysis technique to be displayed, click the OK button to insert the analysis technique and return to the chart window.

Using the Shortcut Menu Method

The following covers using the Shortcut menu method to insert an analysis technique in your chart.

1. Place the mouse pointer on any empty area of the chart window and click the right mouse button to produce the Shortcut menu shown below.

Chart window Shortcut menu

2. Select Insert Analysis Techniques to produce the Insert Analysis Techniques dialog.
2. Click on the appropriate tab to produce the corresponding dialog. For example, to insert an indicator, click the Indicator tab.
3. Select one analysis technique by clicking on it, or more than one analysis technique by holding down the CTRL key and clicking on the analysis techniques you wish to apply.

If you want to format the analysis technique (change inputs, color, style, scaling, and other properties) before it is plotted, click in the Format checkbox to place a check mark in the box. (To remove the check mark click again.)

4. Click the Plot button. You are returned to the chart window. The analysis has been applied to the chart.

If you chose to format your analysis technique before inserting it on the chart window, the Format analysis technique dialog is produced when you click the Plot button. After specifying the way you want the analysis technique to be displayed, click the OK button to insert the analysis technique and return to the chart window.

SYSTEM TRADE BY TRADE REPORT

Crossbow Swiss SF.LNG-Daily 10/17/88 - 09/30/99

Date	Type	Cnts	Price	Signal Name	Entry P/L	Cumulative
5/11/89	Sell	1	66.40	SLLTrig		
5/25/89	SExit	1	64.17	S1Chan	\$2,687.50	\$2,687.50
8/30/89	Sell	1	66.83	SLLTrig		
9/13/89	SExit	1	65.94	S1Chan	\$1,012.50	\$3,700.00
10/13/89	Buy	1	67.15	LHHTrig		
11/1/89	LExit	1	68.74	L1.5Chan	\$1,887.50	\$5,587.50
11/14/89	Buy	1	68.69	LHHTrig		
12/4/89	LExit	1	69.32	L1.5Chan	\$687.50	\$6,275.00
12/5/89	Buy	1	69.96	LHHTrig		
12/19/89	LExit	1	71.06	L1.5Chan	\$1,275.00	\$7,550.00
1/4/90	Buy	1	71.30	LHHTrig		
1/16/90	LExit	1	72.32	L1.5Chan	\$1,175.00	\$8,725.00
1/23/90	Buy	1	72.99	LHHTrig		
1/30/90	LExit	1	73.12	L1.5Chan	\$62.50	\$8,787.50
2/14/90	Buy	1	73.92	LHHTrig		
2/26/90	LExit	1	74.07	L1.5Chan	\$87.50	\$8,875.00
3/5/90	Buy	1	73.75	LHHTrig		
3/20/90	LExit	1	73.22	SLLTrig	-\$762.50	\$8,112.50
3/20/90	Sell	1	73.22	SLLTrig		
4/25/90	SExit	1	74.62	LHHTrig	-\$1,850.00	\$6,262.50
4/25/90	Buy	1	74.62	LHHTrig		
5/17/90	LExit	1	77.99	L1.5Chan	\$4,112.50	\$10,375.00
9/24/90	Buy	1	84.10	LHHTrig		
10/15/90	LExit	1	84.55	L1.5Chan	\$462.50	\$10,837.50
10/16/90	Buy	1	85.70	LHHTrig		
11/23/90	LExit	1	86.53	L1.5Chan	\$937.50	\$11,775.00
12/5/90	Buy	1	85.67	LHHTrig		
12/14/90	LExit	1	85.83	L1.5Chan	\$100.00	\$11,875.00
5/22/91	Sell	1	76.48	SLLTrig		
6/19/91	SExit	1	72.45	S1Chan	\$4,937.50	\$16,812.50

8/15/91	Buy	1	74.36 LHHTrig		
8/19/91	LExit	1	72.14 MM	-\$2,875.00	\$13,937.50
8/21/91	Buy	1	73.04 LHHTrig		
9/13/91	LExit	1	75.04 L1.5Chan	\$2,400.00	\$16,337.50
10/10/91	Buy	1	76.02 LHHTrig		
11/26/91	LExit	1	78.44 L1.5Chan	\$2,925.00	\$19,262.50
12/2/91	Buy	1	78.80 LHHTrig		
12/31/91	LExit	1	81.98 L1.5Chan	\$3,875.00	\$23,137.50
3/2/92	Sell	1	76.22 SLLTrig		
3/10/92	SExit	1	75.62 S1Chan	\$650.00	\$23,787.50
5/26/92	Buy	1	77.32 LHHTrig		
7/9/92	LExit	1	83.54 L1.5Chan	\$7,675.00	\$31,462.50
10/16/92	Sell	1	87.79 SLLTrig		
11/13/92	SExit	1	82.19 S1Chan	\$6,900.00	\$38,362.50
1/12/93	Sell	1	78.91 SLLTrig		
1/25/93	SExit	1	80.91 MM	-\$2,600.00	\$35,762.50
4/8/93	Buy	1	79.71 LHHTrig		
4/15/93	LExit	1	80.41 L1.5Chan	\$775.00	\$36,537.50
4/20/93	Buy	1	81.03 LHHTrig		
4/28/93	LExit	1	81.75 L1.5Chan	\$800.00	\$37,337.50
5/13/93	Buy	1	81.08 LHHTrig		
6/4/93	LExit	1	82.00 L1.5Chan	\$1,050.00	\$38,387.50
6/15/93	Sell	1	81.24 SLLTrig		
6/29/93	SExit	1	79.33 S1Chan	\$2,287.50	\$40,675.00
6/30/93	Sell	1	78.87 SLLTrig		
8/13/93	SExit	1	78.47 LHHTrig	\$400.00	\$41,075.00
8/13/93	Buy	1	78.47 LHHTrig		
9/21/93	LExit	1	83.45 L1.5Chan	\$6,125.00	\$47,200.00
12/16/93	Buy	1	81.49 LHHTrig		
12/29/93	LExit	1	82.07 L1.5Chan	\$625.00	\$47,825.00
2/11/94	Buy	1	81.05 LHHTrig		
3/14/94	LExit	1	83.02 L1.5Chan	\$2,362.50	\$50,187.50
3/17/94	Buy	1	83.20 LHHTrig		
4/1/94	LExit	1	83.33 L1.5Chan	\$62.50	\$50,250.00
4/8/94	Buy	1	82.50 LHHTrig		
4/20/94	LExit	1	82.46 SLLTrig	-\$150.00	\$50,100.00
4/20/94	Sell	1	82.46 SLLTrig		
4/29/94	SExit	1	84.46 MM	-\$2,600.00	\$47,500.00
6/8/94	Buy	1	84.13 LHHTrig		
7/14/94	LExit	1	89.53 L1.5Chan	\$6,650.00	\$54,150.00
9/1/94	Buy	1	88.55 LHHTrig		
10/3/94	LExit	1	90.27 L1.5Chan	\$2,050.00	\$56,200.00
10/4/94	Buy	1	91.13 LHHTrig		
10/27/94	LExit	1	92.98 L1.5Chan	\$2,212.50	\$58,412.50
11/8/94	Buy	1	92.25 LHHTrig		
11/14/94	LExit	1	90.25 Mm	-\$2,600.00	\$55,812.50
2/3/95	Buy	1	90.91 LHHTrig		
3/8/95	LExit	1	98.96 L1.5Chan	\$9,962.50	\$65,775.00
4/25/95	Buy	1	101.20 LHHTrig		
4/28/95	LExit	1	99.20 MM	-\$2,600.00	\$63,175.00

7/13/95	Buy	1	98.00 LHHTrig		
8/2/95	LExit	1	98.56 L1.5Chan	\$600.00	\$63,775.00
8/4/95	Sell	1	98.42 SLLTrig		
8/24/95	SExit	1	93.81 S1Chan	\$5,662.50	\$69,437.50
9/15/95	Sell	1	93.80 SLLTrig		
9/20/95	SExit	1	95.80 MM	-\$2,600.00	\$66,837.50
9/28/95	Buy	1	98.93 LHHTrig		
11/3/95	LExit	1	98.69 L1.5Chan	-\$400.00	\$66,437.50
12/6/95	Sell	1	96.63 SLLTrig		
1/23/96	SExit	1	95.08 S1Chan	\$1,837.50	\$68,275.00
1/24/96	Sell	1	94.39 SLLTrig		
2/5/96	SExit	1	93.52 S1Chan	\$987.50	\$69,262.50
4/1/96	Sell	1	93.76 SLLTrig		
4/17/96	SExit	1	91.49 S1Chan	\$2,737.50	\$72,000.00
5/6/96	Sell	1	90.11 SLLTrig		
5/23/96	SExit	1	88.78 S1Chan	\$1,562.50	\$73,562.50
7/11/96	Buy	1	88.77 LHHTrig		
8/7/96	LExit	1	91.76 L1.5Chan	\$3,637.50	\$77,200.00
11/5/96	Sell	1	86.97 SLLTrig		
12/3/96	SExit	1	84.44 S1Chan	\$3,062.50	\$80,262.50
12/12/96	Sell	1	84.01 SLLTrig		
12/31/96	SExit	1	82.77 S1Chan	\$1,450.00	\$81,712.50
1/8/97	Sell	1	81.57 SLLTrig		
1/23/97	SExit	1	78.46 S1Chan	\$3,787.50	\$85,500.00
4/10/97	Buy	1	75.53 LHHTrig		
4/22/97	LExit	1	75.79 L1.5Chan	\$225.00	\$85,725.00
7/8/97	Sell	1	75.03 SLLTrig		
8/8/97	SExit	1	72.23 S1Chan	\$3,400.00	\$89,125.00
10/16/97	Buy	1	74.62 LHHTrig		
11/17/97	LExit	1	76.35 L1.5Chan	\$2,062.50	\$91,187.50
2/13/98	Sell	1	73.12 SLLTrig		
2/27/98	SExit	1	73.33 LHHTrig	-\$362.50	\$90,825.00
2/27/98	Buy	1	73.33 LHHTrig		
3/17/98	LExit	1	72.21 SLLTrig	-\$1,500.00	\$89,325.00
3/17/98	Sell	1	72.21 SLLTrig		
4/8/98	SExit	1	70.33 S1Chan	\$2,250.00	\$91,575.00
4/13/98	Sell	1	70.50 SLLTrig		
5/7/98	SExit	1	72.50 MM	-\$2,600.00	\$88,975.00
5/14/98	Buy	1	72.02 LHHTrig		
6/25/98	LExit	1	70.02 MM	-\$2,600.00	\$86,375.00
8/20/98	Buy	1	70.11 LHHTrig		
10/9/98	LExit	1	78.46 L1.5Chan	\$10,337.50	\$96,712.50
11/18/98	Sell	1	75.61 SLLTrig		
11/30/98	SExit	1	74.25 S1Chan	\$1,600.00	\$98,312.50
2/11/99	Sell	1	73.12 SLLTrig		
2/25/99	SExit	1	71.87 S1Chan	\$1,462.50	\$99,775.00
2/26/99	Sell	1	71.35 SLLTrig		
3/10/99	SExit	1	70.68 S1Chan	\$737.50	\$100,512.50
5/26/99	Sell	1	67.61 SLLTrig		
6/8/99	SExit	1	66.77 S1Chan	\$950.00	\$101,462.50

6/10/99	Sell	1	66.96 SLLTrig		
7/15/99	SExit	1	64.93 S1Chan	\$2,437.50	\$103,900.00
9/20/99	Sell	1	65.35 SLLTrig		
9/30/99	SExit	1	67.35 MM	-\$2,600.00	\$101,300.00

To view an equity chart based on the above trades go to:

http://traderclub.com/systems_crossbow.htm

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Good luck and Good trading.